C-182T (N819CP, N810CP)
AIRPLANE QUESTIONNAIRE

Score: _____ Type/Model Aircraft: **C-182T (N810CP)**

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: **100 LL (Blue) / 100 (Green)**

2. Location/capacity of each fuel tank is: **Wings / 46 gal ea. (92 gal total)**

3. Total usable fuel under all flight conditions is gallons: **87 gal. (64 filled to tabs)**

4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is hours: **5.8 hrs.**

5. What make and grade oil is used? Winter: **15-50W (NCWG Standard)** Summer: **15-50W (NCWG Standard)**

6. Oil capacity is **9** quarts. Minimum oil quantity for take off is **4** quarts.

7. Minimum oil pressure is **20** psi. Maximum oil pressure is **115** .

8. Maximum oil temperature is **245** degrees (F or C) **F** .

9. Magnetos are checked at **1800** RPM. RPM drop should not exceed **150** RPM on either magneto or **50** RPM differential between magnetos.

10. Maximum RPM and MP for takeoff are **2400** and **FULL THROTTLE** in/Hg.

11. Maximum gross takeoff weight is **3100** pounds. Empty weight is _____ pounds.

Useful load is _____ pounds. Maximum landing weight is **2950** pounds.

12. Baggage compartment locations/weights are: **(A) 97"-120 lbs (B) 116"-80 lbs (C) 129"– 80 lbs (200 MAX)**

13. Give the IAS at **maximum gross** weight for:

a. Va (maneuvering speed). **110 KIAS**

b. Vso (stall, landing config, power. off). **41 KIAS**

c. Vs1 (stall, cruise config, power. off). **51 KIAS** .

d. Vy (best rate of climb, sea level). **82 KIAS** .

e. Vx (best angle of climb, sea level). **65 KIAS** .

f. Vmc (minimum control speed – multiengine only). **N/A .**

g. Best glide speed. **76 KIAS** .

14. Give the immediate action/memory items for:

a. Engine failure immediately after takeoff.

AIRSPEED - 75 KIAS (flaps UP)
- 70 KIAS (flaps DOWN) .

b. Fire during cranking and engine fails to start

CRANKING -CONTINUE
THROTTLE – FULL OPEN
MIXTURE – IDLE CUT-OFF
CRANKING – CONTINUE
FUEL SELECTOR VALVE – PUSH DOWN AND ROTATE OFF
AUXILIARY FUEL PUMP – OFF .

c. Engine fire in flight.

MIXTURE – IDLE CUT-OFF
FUEL SELECTOR VALVE – PUSH DOWN AND ROTATE OFF
AUXILIARY FUEL PUMP SWITCH – OFF
MASTER SWITCH – OFF .

d. Electrical fire in flight.

MASTER SWITCH – OFF
VENTS, CABIN AIR, HEAT - CLOSED
FIRE EXTINGUISHER – ACTIVATE .

15. Normal takeoff flap setting is **0-20 deg** , short field takeoff setting is **20 deg** , and soft field takeoff flap setting is **20 deg** .

16. Maximum demonstrated takeoff/landing crosswind component is **15** knots.

17. Given: PA = 4,000 feet; Temp = 86o F; Runway 27; Wind 320o at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.

Find: Total takeoff distance to clear a 50-foot obstacle: **2264 ft .**

18. Given: PA = 6,000 feet; Temp = 68o F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

Find: Total landing distance to clear a 50-foot obstacle: **1615 ft .**

19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? **NO** .